

# DOUGLAS SAFE GUARD<sup>®</sup> DST

**For Mission Critical Telecom Applications that require more power in the same space as the 150 AH. Douglas SafeGuard DST12-170F Valve Regulated, Lead-Acid Batteries provide high performance and reliability in a 12-Volt, 170 AH design. Each jar and cover is constructed of Flame Retardant UL94 V-0 halogen-free ABS plastic with a LOI of 28%.**

Terminals are located in front of the battery, for accessibility and ease of maintenance.

Douglas SafeGuard DST provides an extended full float life of 10 years under normal operating conditions, at 77°F (25°C). Battery life in harsh environments can be preserved by using a temperature compensated charger.



## DESIGN FEATURES:

- **Post Seal.** Tongue and Groove, hot melt seal eliminates acid leaks and post movement.
- **Terminal Post.** Strong steel front terminals allow excellent accessibility and ease of installation.
- **Plates.** Thick, pasted construction for both positive and negative plates, with special lead/calcium/tin alloy.
- **Separators.** High-quality micro-glass fiber mat with polyester synthetic additive to facilitate gas diffusion, optimized acid absorption and lower electrical resistance. Low internal resistance, high-energy density separator maintains compression throughout life, giving excellent vibration resistance.
- **Electrolyte.** High-purity sulfuric acid absorbed in separator. No acid spill, easy to handle and install, supplied filled and charged, no acid handling. No watering or hydrometer readings, which cuts maintenance expense.
- **Float Voltage.** Douglas SafeGuard batteries provide optimum performance when float charged at 13.62 V ± 0.14V at 77°F(25°C).
- **Flame Arrestor.** Built-in above every safety valve. Maximum safety in the event of abusive charging.
- **Safety Valve.** Self sealing one-way valve which operates between 3 - 5 psi for safety in the event of abusive operating conditions. Valve-Regulated operation, with controllable internal pressure for safety and reliability and very low maintenance in service.
- **Container and Cover.** Made of thick wall ABS, with high mechanical strength and impact resistance. Non-toxic, non-halogenated flame retardant to UL94 V-0 and LOI 28%. Rope handles are also flame retardant to UL94 V-0 and 28% LOI. In the event of fire, non-toxic materials offer personnel safety.
- **Inter-cell/unit Connectors.** Heavy-duty tin-plated copper connectors minimize voltage drop in battery circuits.
- **Storage.** The shelf life of Douglas SafeGuard batteries is affected by temperature. The lower the storage temperature, the longer the shelf life. At 77°F (25°C) batteries lose about 3% capacity per month.
- **SafeGuard DST** is designed in compliance to, UL Recognized, UL94 V-0, and UL-1778 ANSI T1.330-1997  
Telcordia (Bell-Core) TR-NWT-000766  
Telcordia (Bell-Core) TR-NWT-000909  
SR-4228

DOUGLAS SAFEGUARD<sup>®</sup>  
DST

## Product Specifications

| MODEL NUMBER  | NOMINAL VOLTAGE | NOMINAL AH (8 HR) CAPACITY | DIMENSIONS |     |       |     |        |     | Weight |      |
|---------------|-----------------|----------------------------|------------|-----|-------|-----|--------|-----|--------|------|
|               |                 |                            | Length     |     | Width |     | Height |     | lbs.   | kg   |
|               |                 |                            | in.        | mm  | in.   | mm  | in.    | mm  |        |      |
| DST12-100F-19 | 12              | 100                        | 15.56      | 395 | 4.25  | 108 | 10.83  | 275 | 74.9   | 33.9 |
| DST12-170F    | 12              | 170                        | 21.97      | 558 | 4.96  | 126 | 12.64  | 321 | 132.3  | 60.0 |

AH Capacity is to 1.75 end Volts per Cell @ 77°F (25°C).

## Performance Specifications

Amperes Discharge Rate to 1.75 @ 77°F (25°C)

| Model Number  | Minutes |       |       |      | Hours |      |      |      |      |     |
|---------------|---------|-------|-------|------|-------|------|------|------|------|-----|
|               | 10      | 15    | 30    | 60   | 2     | 3    | 5    | 8    | 10   | 20  |
| DST12-100F-19 | 215.0   | 170.3 | 107.2 | 63.3 | 36.5  | 26.3 | 17.5 | 12.0 | 10.0 | 5.5 |
| DST12-170F    | 355     | 296   | 199   | 119  | 70.3  | 50.3 | 32.4 | 21.5 | 17.7 | 9.5 |

## Typical Applications

- CEVs Controlled environment vaults
- Outdoor wireless telecom sites
- Mini-huts
- Maxi-huts
- Other manufacturers' power plants



Pre-Assembled  
4, 6, & 8 Cells Wide Rack



Adjustable Shelf Relay Rack



Pre-Assembled  
Welded Shelf Relay Rack

